Performance Data Sheet

AWG5519EVA

General Information

Model	AWG5519EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3920	3370					
	Watts	709	697					
	Amps	3.53	3.47					
	Lb/h	52.3	48.0					
-10	Btu/h	4950	4340	3690				
	Watts	775	769	761				
	Amps	3.82	3.80	3.76				
	Lb/h	63.3	57.9	53.4				
-5	Btu/h	6060	5390	4680	3950			
	Watts	835	837	837	832			
	Amps	4.09	4.10	4.10	4.08			
	Lb/h	76.2	69.8	64.3	58.8			
0	Btu/h	7280	6530	5750	4950	4150		
	Watts	889	900	909	913	907		
	Amps	4.33	4.38	4.42	4.44	4.41		
	Lb/h	90.8	83.4	77.0	70.8	63.6		
5	Btu/h	8600	7770	6910	6040	5160		
	Watts	937	957	976	990	995		
	Amps	4.55	4.64	4.72	4.78	4.80		
	Lb/h	107	98.8	91.6	84.6	76.8		
10	Btu/h	10000	9130	8180	7220	6270	5320	4420
	Watts	978	1010	1040	1060	1080	1080	1070
	Amps	4.73	4.87	5.00	5.11	5.18	5.19	5.14
	Lb/h	125	116	108	100	91.9	81.9	69.2
15	Btu/h	11600	10600	9570	8520	7470	6440	5440
	Watts	1010	1050	1090	1130	1160	1170	1170
	Amps	4.89	5.07	5.25	5.41	5.54	5.61	5.61
	Lb/h	144	134	126	118	109	98.3	85.3
20	Btu/h	13300	12200	11100	9940	8790	7660	6570
	Watts	1040	1090	1140	1190	1230	1260	1280
	Amps	5.01	5.24	5.48	5.69	5.87	6.00	6.06
	Lb/h	165	154	145	136	127	116	103

25	Btu/h	15200	14000	12700	11500	10200	8990	7800
	Watts	1060	1120	1190	1250	1300	1350	1370
	Amps	5.10	5.39	5.68	5.95	6.19	6.38	6.50
	Lb/h	187	176	166	157	147	136	123
30	Btu/h	17200	15900	14500	13200	11800	10500	9140
	Watts	1070	1150	1230	1300	1370	1430	1470
	Amps	5.16	5.50	5.85	6.19	6.49	6.74	6.93
	Lb/h	211	199	189	179	169	158	144
35	Btu/h	19500	18000	16500	15000	13500	12000	10600
	Watts	1080	1170	1260	1350	1430	1500	1560
	Amps	5.18	5.58	6.00	6.39	6.76	7.08	7.34
	Lb/h	236	223	212	202	192	181	167
40	Btu/h	21800	20300	18600	17000	15400	13800	12200
	Watts	1070	1180	1280	1390	1490	1570	1650
	Amps	5.16	5.63	6.11	6.57	7.01	7.40	7.73
	Lb/h	262	249	237	227	216	205	191
45	Btu/h	24400	22700	21000	19200	17400	15700	14000
	Watts	1060	1180	1300	1420	1540	1640	1730
	Amps	5.11	5.64	6.19	6.72	7.23	7.70	8.11
	Lb/h	289	275	263	253	242	231	217
50	Btu/h	27200	25400	23500	21500	19600	17800	15900
	Watts	1040	1180	1310	1450	1580	1700	1810
	Amps	5.01	5.62	6.24	6.84	7.43	7.97	8.46
	Lb/h	317	303	291	280	269	258	244
55	Btu/h	30300	28200	26200	24100	22100	20000	18000
	Watts	1010	1160	1320	1470	1620	1760	1880
	Amps	4.88	5.56	6.25	6.93	7.60	8.22	8.79
	Lb/h	346	331	319	308	297	286	273

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	9.963711E+03	1.208953E+03	5.681871E+00	3.074362E+02
C2	3.816183E+02	-1.129078E+00	-5.498463E-03	5.331238E+00
C3	2.324134E+01	-1.315151E+01	-5.667380E-02	-5.638555E+00
C4	3.404277E+00	-2.365468E-01	-1.052074E-03	2.409934E-02
C5	-1.684678E+00	1.103029E-01	4.970109E-04	-3.600627E-02
C6	-9.371724E-01	1.657524E-01	7.238389E-04	4.979166E-02
C7	1.428249E-02	-3.955998E-04	-1.850786E-06	-9.929138E-05
C8	-1.497809E-02	1.416016E-03	6.308682E-06	1.172486E-04
C9	1.000528E-03	3.928998E-04	1.775483E-06	1.001764E-04
C10	2.832316E-03	-6.424427E-04	-2.830746E-06	-1.644585E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AWG5519EVA

General Information

Model	AWG5519EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4680	4190					
	Watts	912	914					
	Amps	3.54	3.54					
	Lb/h	60.4	56.4					
-10	Btu/h	5740	5140	4520				
	Watts	972	979	981				
	Amps	3.77	3.79	3.79				
	Lb/h	73.6	68.7	62.9				
-5	Btu/h	6990	6270	5530	4790			
	Watts	1030	1050	1050	1050			
	Amps	4.00	4.04	4.07	4.07			
	Lb/h	89.0	83.1	76.4	69.1			
0	Btu/h	8410	7580	6720	5860	5030		
	Watts	1090	1110	1130	1140	1140		
	Amps	4.23	4.29	4.35	4.38	4.37		
	Lb/h	106	99.8	92.1	83.9	75.3		
5	Btu/h	10000	9070	8090	7100	6140		
	Watts	1150	1180	1200	1220	1230		
	Amps	4.44	4.54	4.63	4.69	4.72		
	Lb/h	126	119	110	101	91.2		
10	Btu/h	11800	10700	9630	8520	7420	6380	5420
	Watts	1210	1240	1280	1300	1320	1320	1320
	Amps	4.65	4.78	4.90	5.00	5.07	5.08	5.05
	Lb/h	148	139	130	120	109	98.7	88.1
15	Btu/h	13800	12600	11400	10100	8870	7690	6590
	Watts	1260	1310	1350	1380	1410	1430	1430
	Amps	4.84	5.01	5.17	5.31	5.41	5.47	5.47
	Lb/h	171	162	152	141	130	118	107
20	Btu/h	16000	14600	13300	11900	10500	9170	7930
	Watts	1300	1360	1420	1460	1500	1530	1540
	Amps	5.00	5.22	5.42	5.60	5.74	5.85	5.89
	Lb/h	197	187	176	165	152	140	127

25	Btu/h	18300	16800	15300	13800	12300	10800	9430
	Watts	1340	1410	1480	1540	1590	1630	1650
	Amps	5.14	5.40	5.65	5.87	6.07	6.22	6.31
	Lb/h	224	214	203	190	177	164	150
30	Btu/h	20800	19200	17600	15900	14300	12600	11100
	Watts	1370	1450	1530	1600	1670	1720	1760
	Amps	5.24	5.55	5.85	6.13	6.37	6.57	6.72
	Lb/h	254	243	231	218	204	190	175
35	Btu/h	23500	21800	20000	18200	16400	14600	12900
	Watts	1390	1490	1580	1670	1740	1810	1860
	Amps	5.31	5.67	6.03	6.35	6.65	6.91	7.11
	Lb/h	285	274	261	247	233	218	203
40	Btu/h	26400	24600	22600	20700	18700	16800	14900
	Watts	1400	1510	1620	1720	1810	1890	1960
	Amps	5.34	5.76	6.17	6.55	6.91	7.22	7.48
	Lb/h	318	307	294	279	264	248	232
45	Btu/h	29500	27500	25400	23300	21200	19100	17100
	Watts	1390	1520	1640	1760	1870	1970	2060
	Amps	5.32	5.80	6.27	6.71	7.13	7.50	7.82
	Lb/h	354	341	328	313	297	281	264
50	Btu/h	32800	30600	28400	26100	23800	21600	19400
	Watts	1370	1520	1660	1790	1920	2040	2140
	Amps	5.25	5.79	6.32	6.83	7.31	7.75	8.13
	Lb/h	390	378	364	348	332	315	298
55	Btu/h	36200	33900	31500	29100	26600	24200	21900
	Watts	1330	1500	1660	1810	1960	2090	2210
	Amps	5.12	5.73	6.33	6.91	7.46	7.96	8.41
	Lb/h	429	416	402	386	369	352	334

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.037568E+04	1.034224E+03	4.479278E+00	9.170851E+01
C2	4.740767E+02	2.948753E-01	-5.670510E-04	4.548753E+00
C3	6.305528E+01	-2.993654E+00	-2.459013E-02	1.300609E+00
C4	4.155860E+00	-2.014341E-01	-7.314754E-04	3.346376E-02
C5	-1.897000E+00	1.432649E-01	5.384007E-04	-5.277704E-03
C6	-1.490549E+00	7.610011E-02	4.087174E-04	-1.789026E-02
C7	1.512632E-04	-1.887059E-03	-6.374982E-06	-3.798157E-05
C8	-6.222413E-03	2.080881E-03	7.104848E-06	9.932510E-05
C9	-2.865714E-03	3.587786E-05	3.211513E-07	-6.616860E-05
C10	4.947400E-03	-3.676487E-04	-1.759873E-06	4.926227E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature